

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

1 1 Claims 1 - 8 (Cancelled)

1 9. (Cancelled)

1 10. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein the server further comprises means to compare images with no manual input of
3 features from a user.

1 11. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein the user interface comprises a computer connection.

1 12. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein the associated text describes features of ~~the~~ an object in the image including
3 geographical location of the object.

1 13. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein the associated text describes features of the object in the image including a
3 description and historical facts regarding the object.

1 14. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein the associated text includes a uniform resource locator (URL).

1 15. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein at least one of the computers includes a plurality of computer files having images
3 of ~~locations~~ objects of interest located within a predetermined radius about a geographical
4 location.

1 16. (Original) The system to provide location awareness services as recited in Claim 15 wherein
2 the computer having a plurality of computer files having images of objects of interest located

3 within a predetermined radius about a geographical location was previously trained to find
4 common objects known to be of interest.

1 17. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein at least one of the computers includes at least one computer file having an image of
3 an object of known interest and an associated image of an object of less recognized interest
4 within a predetermined radius about a geographical location of the known interest object to aid a
5 user in finding the object of less recognized interest.

1 18. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein at least one of the computers includes at least one computer file having an image
3 of an object of known interest and an associated image of an object of less recognized interest
4 within the field of view of the known interest object to aid a user in finding the object of less
5 recognized interest.

1 19. (Currently amended) The system to provide location awareness services as recited in Claim
2 9 29 wherein the server includes a capability to search other computers using keywords extracted
3 from a joint set of keywords from a web page associated with ~~a matched image~~ one of the similar
4 images, at least one of the other computers having at least one computer file having text
5 matching the keywords.

1 20. (Currently amended) The system to provide location awareness services as recited in Claim
2 19 wherein at least one image from a computer file having text matching the keywords is used to
3 search for additional similar images using a content based image retrieval technique.

4 21. (Previously Presented) The system to provide location awareness services as recited in
5 Claim 19 wherein at least one computer file having text matching the associated text describing
6 the object in the image is communicated to the computer that initiated the search.

22. (Currently amended) The system to provide location awareness services as recited in Claim 21 wherein the computer that initiated the search is capable of comparing using content based retrieval techniques the original image with images returned in the computer file having text matching the associated text describing the object in the image.

23. (Original) The system to provide location awareness services as recited in Claim 15 further comprising:

a global positioning system (GPS) receiver to identify the geographical location of the mobile communication device to help eliminate non-useful images.

24. (Original) The system to provide location awareness services as recited in Claim 19 wherein at least one of the computers includes at least one computer file having an image of an object of known interest and an associated image of an object of less recognized interest within the field of view of the known interest object to aid a user in finding the object of less recognized interest all located within a predetermined radius about a geographical location.

25. (Currently amended) A storage medium comprising:

a first computer readable program code stored on the storage medium being operative to interact with a processor in a server and to communicate with a handheld device to capture an image from a camera;

a second computer readable program code stored on the storage medium being operative to interact with the processor in the server having a database with image files, each file including an image, text and an associated link and to search said database of image files for a similar image similar to the captured image by comparing using a content based image retrieval technique the captured image with other images and to cause said server to provide to the handheld device an image and a hyperlink to the image file in the database having the similar image; and

a third computer readable program code stored on the storage medium being operative to interact with the processor in the server to communicate with other computers having image files and to search using a content based image retrieval technique said other computers for a similar image when a similar image is not found in the database in the server and to add a the similar image and an associated hyperlink when found on another computer to the database.

1 26. (Currently amended) A method for identifying a location comprising the steps of:

2 (i) providing a database of images on a first computer, each image having an
3 associated URL that includes said image and a description of the image;

4 (ii) comparing using a content based image retrieval technique an image of an
5 unknown location communicated to the first computer from a handheld device with images from
6 the database of images and providing a list of images and corresponding URL of possible
7 matching images to the handheld device;

8 (iii) searching using a content based image retrieval technique, using the first
9 computer, files on additional computers when a matching image is not found in the database on
10 the first computer and adding a the similar image and associated hyperlink when found on
11 another computer to the database; and

12 (iv) reviewing the images in the list of possible matching images until the matching
13 image of the correct location is identified.

1 27. (Previously Presented) The method for identifying a location as recited in Claim 26 wherein
2 the comparing step includes comparing local spatial invariant feature data.

1 28. (Previously Presented) The method for identifying a location as recited in claim 26 wherein
2 the comparing step comprises the techniques including a matching histogram of image feature
3 technique.

1 29. (New) A system to provide location awareness services comprising:

2 (a) a computer network including a wireless network and a wired network;

3 (b) a server having a database of previously saved images and capable of searching
4 images by comparing an image with the saved images in the database using a content based
5 image retrieval technique;

6 (c) a handheld device comprising:

7 (i) a camera to capture an image of a location;

8 (ii) a mobile communication device, coupled to the camera and to the wireless
9 network, to communicate the captured image to the server having the database of previously
10 saved images to find similar images in the database similar with the captured image using the
11 content based image retrieval technique; and

12 (iii) a user interface, coupled to the mobile communication device, to
13 communicate to an user any resulting images and associated hyperlinks of found similar images;
14 and

15 (d) a plurality of computers, each computer have a plurality of computer files in a
16 format to display as a web page, each file including an image and associated text, each computer
17 connected to the computer network, at least one of the computer files having an associated
18 hyperlink, an image similar to the captured image and text describing an object in the image;

19 wherein the server having the database of saved images searches for additional images
20 using a content based image retrieval technique on one of the plurality of computers when an
21 image similar to the captured image is not found in the database on the server.